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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/786,802	04/18/2001	Hans Ruckert	21753	5223
535	7590 10/22/2003		EXAMINER	
THE FIRM OF KARL F ROSS 5676 RIVERDALE AVENUE PO BOX 900			HAMILTON, ISAAC N	
			ART UNIT	PAPER NUMBER
RIVERDALE (BRONX), NY 10471-0900			3724	16
			DATE MAILED: 10/22/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	/ \ \ \				
	•	09/786,802	RUCKERT ET AL	<u>.</u> .				
• '	Office Action Summary	Examiner	Art Unit					
	·	Isaac N Hamilton	3724					
	The MAILING DATE of this communication app	ears on the cover sh	eet with the correspondence ac	ddress				
Period fo	• •		= - MONTH(0) = 0.14					
THE N - Exter after - If the - If NO - Failui - Any n	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing indicated patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, within the statutory minimun will apply and will expire SIX (cause the application to bee	may a reply be timely filed n of thirty (30) days will be considered time (6) MONTHS from the mailing date of this of come ABANDONED (35 U.S.C. § 133).	ly. communication.				
1)⊠	Responsive to communication(s) filed on <u>07 A</u>	August 2003 .						
2a)□		is action is non-final.						
3)								
Dispositi	on of Claims							
4)⊠ Claim(s) <u>25-32</u> is/are pending in the application.								
•	4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.								
6)⊠	6)⊠ Claim(s) <u>25-32</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
• —	Claim(s) are subject to restriction and/or on Papers	r election requireme	nt.					
9)[The specification is objected to by the Examine	r.	•					
10) 🗌 🗆	Γhe drawing(s) filed on is/are: a)□ accep	oted or b) Dobjected t	o by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
12) 🔲 🗆	The oath or declaration is objected to by the Ex	aminer.						
Priority u	nder 35 U.S.C. §§ 119 and 120							
13)⊠	Acknowledgment is made of a claim for foreign	priority under 35 U.	S.C. § 119(a)-(d) or (f).					
a)[☑ All b)☐ Some * c)☐ None of:							
	1. Certified copies of the priority documents	s have been received	d.					
	2. Certified copies of the priority documents	s have been received	d in Application No					
	3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
	cknowledgment is made of a claim for domestic	·		al application).				
<i>,</i> —	☐ The translation of the foreign language pro	•		,				
	Acknowledgment is made of a claim for domesti							
Attachment	(s)							
2) 🔲 Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🔲 Not	erview Summary (PTO-413) Paper No tice of Informal Patent Application (PT er:					

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submissions filed on 6-27-2003 and 8-7-2003 have been entered.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 25-32 are rejected under 35 U.S.C. 102(b) as being anticipated by Engel et al (3,988,955), hereafter Engel. Engel discloses a method of coating a surface of a steel cutting instrument by means of plasma with foreign ions in columns 2-4, lines 15-61. Engel discloses that a 1095 AISI steel blade has with a hardness of 70 on the Rockwell 30 N scale has foreign ions to a depth of 0.001 inches, which equates to 30 micrometers, in column 3, lines 32-41. Engel also discloses that the penetration depth of the ion implantation depends on the hardness of the substrate in column 4, lines 39-40. It is inherent that the depth of the ions is between 100 micrometers and 200 micrometers due to the disclosure mentioned above in Engel. Note

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hardness in column 6, lines 66-68. Note molybdenum and tungsten in column 4, lines 67 and 68.

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In column 5, lines 61-68, the coating 16 comprises tungsten carbide and does not contain any

titanium, therefore, the portion of tungsten ions is greater than the portion of titanium ions, which

is zero.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure. Ballard is cited for a similar method.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Isaac Hamilton whose telephone number is 703-305-4949. The

examiner can normally be reached on Monday thru Friday between 8am and 5pm. If attempts to

reach the examiner are unsuccessful, the examiner's supervisor, Allan Shoap can be reached on

703-308-1082.

In lieu of mailing, it is encouraged that all formal responses be faxed to 703-872-9306.

Any inquiry of a general nature or relating to the status of this application should be directed to

the receptionist whose telephone number is 703-308-1148.

ΙH

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October 17, 2003

Allan N. Shoap

Supervisory Patent Examiner

Group 3700